39s Ribosomal Protein L53, Mitochondrial (MRPL53) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	39S ribosomal protein L53, mitochondrial (Mrpl53), Recombinant Protein
Full Product Name	Recombinant Mouse 39S ribosomal protein L53, mitochondrial (Mrpl53) , partial
Product Gene Name	Mrpl53 recombinant protein
Product Synonym Gene Name	Mrpl53
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	12,738 Da
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q9D1H8
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Mrpl53 recombinant protein	Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. They have an estimated 75% protein to rRNA composition compared to prokaryotic ribosomes, where this ratio is reversed. Another difference between mammalian mitoribosomes and prokaryotic ribosomes is that the latter contain a 5S rRNA. Among different species, the proteins comprising the mitoribosome differ greatly in sequence, and sometimes in biochemical properties, which prevents easy recognition by sequence homology. This gene encodes a 39S subunit protein. A pseudogene corresponding to this gene is found on chromosome 1p.
Other Notes	Small volumes of Mrpl53 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Mrpl53 purchase	MBS1311415 is a recombinant protein targeting Mrpl53. Also known as Recombinant Mouse 39S ribosomal protein L53, mitochondrial (Mrpl53) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Mrpl53. It may not necessarily be applicable to this product.

NCBI GI #	21313040
NCBI GeneID	68499
NCBI Accession #	NP_081020.1
UniProt Primary Accession #	Q9D1H8
UniProt Related Accession #	Q9D1H8

GenBank Nucleotide #	NM_026744.3
NCBI Official Full Name	39S ribosomal protein L53, mitochondrial
NCBI Official Synonym Full Names	mitochondrial ribosomal protein L53
NCBI Official Symbol	Mrpl53
NCBI Official Synonym Symbols	1110007K17Rik
UniProt Protein Name	39S ribosomal protein L53, mitochondrial
Protein Family	39S ribosomal protein
UniProt Gene Name	Mrpl53
UniProt Synonym Gene Names	L53mt; MRP-L53
NCBI Protein Information	39S ribosomal protein L53, mitochondrial
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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